

Name: Joseph and Zouyuan

Initial decisions

Programming language is Python on the reason that this will reduce the complexity of the program with its dynamic typing and powerful library. Python also have a powerful feature of lambda operation with commonly used for traversing arrays of object.

Internal Architecture

The main data structure used is an object or hashtable. The object is called student with the purpose as a main schema for all students.

Task Log

Task Name	Student	Start Time	End Time	Total hour
Implements the data structure, Student class and helper functions, main program prompt also quit command	Joseph, Zuoyuan	January 8 12.00pm	January 8 12.30pm	1/2
Implements the Student and Teacher commands	Joseph, Zuoyuan	January 8 12.00pm	January 8 1.00pm	1/2
Implements the Bus, Grade and average commands	Joseph, Zuoyuan	January 10 12.00pm	January 10 1.00pm	1
Implements the Info command	Joseph, Zuoyuan	January 12 12.00pm	January 12 12.15pm	1/4
Testing, creates test file	Zuoyuan	January 12 12.00pm	January 12 12.00pm	3/4
Create write up Report	Joseph	January 8 12.00pm	January 8 12.30pm	3/4
Finish Up test file and report	Joseph	January 16 8.00pm	January 16 9.00pm	1

Notes on Testing

The main test file is tests.txt, use it with file redirection:

```
python3 schoolsearch.py < tests.txt > tests.out
```

The schoolsearch program will ignore any comment as it will only detect specific command implemented according to the specification ie, G[rade], B[us], etc. Further detail of each detail are recorded in tests.txt. The output of the testfile will be in tests.out

The test able to be parsed in but output will not be check automatically

Final Notes